

SHELKOVYY, K.I., inzh.; MARKOV, L.O., inzh.; SHEVCHENKO, A.F., inzh.

Using plastics in technological equipment. Mashinostroenie
no.5813-15 S-0 '64 (MTRA 182)

SHEVCHENKO, A.F.

Use of plastics in the machine-tool industry. Stan. i instr.
35 no. 2:29-30 F'64 (MIRA 17:3)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6

YENOVSKIY, A.M.; Prinimali uchastiye: SHEVCHENKO, A.F., inzh.; PTITSYN, A.A.,
inzh.; ZINKEVICH, N.O., inzh.

Production of insulator caps. Lit. proizv. no.4:7-9 Ap '64.
(MIRA 18:7)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6"

1. SHEVCHENKO, A. G.
2. USSR (600)
4. Fruit Culture
7. Harvesting fruit on time as a measure for eradicating intermittent fruit bearing. Sad i og. no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6

SHEYCHENKO A.G.

KOPYTOV, V.N., inzhener; MAILOV, L.M., inzhener; SHEVCHENKO, A.G.,
inzhener.

Repairing generator contact rings. Elek.sta. 25 no.10:52-53 0 '54.
(Dynamos) (MLRA 7:11)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6"

VDOVENKO, N.S., inzh.; SHEVCHENKO, A.G.

Large-block assembly of a composite banking unit. Mont. i spets.
rab. v stroi. 24 no.9:5-8 S '62. (MIRA 15:9)

1. Soyuzprommekhanizatsiya.
(Earthmoving machinery)

VEKSEL'MAN, M.L., inzh.; MARKUS, S.A.; SEMENYUTA, N.N.; SHEVCHENKO, A.G.

Shaft 59.5m deep sunk in hard rock in a month. Shakht. stroi. 7
no.4:19-22 Ap '63. (MIRA 16:3)

1. Glubochanskoye shakhtostroyupravleniye (for Veksel'man).
2. Trest Svinetsshakhtostroy (for Markus, Shevchenko). 3. Shakhta "Skipovaya" Glubochanskogo shakhtostroyupravleniya tresta Svinets-shakhtostroy (for Semenyuta).

21.2.100

26467

S/177/60/000/011/001/003

D219/D302

AUTHORS: Buyanov, P. V., Galkin, A. V., Karpov, Ye. A.,
Samukhin, N.V., Terent'yev, V. G., Shevchenko,
A. I.

TITLE: Contra-indications to the breathing of oxygen at
increased pressure

PERIODICAL: Vojenno-meditsinskiy zhurnal, no. 11, 1960, 64 - 68

TEXT: The authors wished to study the effect of systematic
breathing of oxygen under pressure and discover medical contra-
indications to its use, especially with regard to personnel suf-
fering from physical defects which do not render them unfit for
flying duty. 125 persons, 20 - 40 years old, underwent pressure
chamber tests and prolonged clinical observation. All were well
and fit for flying duty. 43 had various defects such as pleural
synechia and adhesions, hypertensive neurocirculatory dystonia
(5), 1st degree thyroid enlargement without malfunction (4) and
so on. Normal clinical records were taken and analyses done

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S/177/60/000/011/001/003

Contra-indication to the breathing... D219/D302

plus X-Ray, neurological, electrophysiological and ENT examination. Subjects took part in 1 - 97 experiments at 7 - 14 day intervals. Physiological effects were noted immediately; rise in heat and respiration rate, arterial pressure, bioelectric respiratory muscle activity; ECG variation; fall of oxyhemoglobin level to 60 - 80% (slowing of circulatory rate; changes in latent period of conditioned motor reflexes; occasional subcutaneous emphysema. Subjects usually felt well after tests complaining rarely of fatigue or headache. Clinical examination generally revealed slowing of pulse (by 6 - 18 beats), increase in venous pressure, moderate increase in arterial pressure, slight fall in pulse pressure and increase in heart size. In over 30% of cases heart murmurs - usually pulmonary and aortic- appeared: No pathological ECG changes save extrasystoles in 4 cases. Changes were often recorded in capillary formation, phethysmograph curves and in vasomotor reflexes. Aftereffects: Lung vital capacity decreased by 200 - 400 ml. A third of the subjects had scattered dry rales. Lung X-Ray showed occasional

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S/177/60/000/011/001/003

Contra-indications to the breathing...D219/D302

shadowing and local disciform atelacteses. There was an increase in neutrophil leucocytes in the peripheral blood and a relative lymphocyte fall. Tendon reflexes became more and more sensitive, finger tremor increased, touch discrimination and co-ordination deteriorated and signs of general fatigue appeared. All changes were reversible, usually in a few hours. As regards personnel suffering from minor defects, the effect of these deficiencies was varies. In some cases e.g., chronic gastritis, they suffered no adverse effect either initially or after prolonged experimentation, but it was clear that systematic participation in such high altitude tests was contra-indicated in all cases of pulmonary tuberculosis, neurocirculatory dystonia, leucopenia, pronounced emotional instability, endocrine deficiency, chronic ENT conditions, or for persons who became rapidly anoxic, had undergone brain trauma or who were suffering from upper respiratory tract infections or exacerbations of chronic upper respiratory tract disease.

SUBMITTED: August 1960

Card 3/3

SHEVCHENKO, A.I.

Tasks of trade unions in the improvement of the operation and the development of health resorts, sanatoriums, and rest homes. Vop. kur. fizioter. i lech. fiz. kul't 25 no. 5:385-390 S-0 '60.
(MIRA 13:10)

1. Sekretar' Vsesoyuznogo tsentral'nogo soveta profsoyuzov.
(HEALTH RESORTS, WATERING PLACES, ETC.)

SHEVCHENKO, A.I.; KRYLOV, M.M., doktor geologo-mineralog. nauk, otv. red.;
MANSUROV, A.R., red.; KARABAYEVA, Kh.U., tekhn. red.

[Hydrogeological classification of the irrigated areas of Uzbekistan]
Gidrogeologicheskaiia klassifikatsiia orosshaemykh territorii Uzbeki-
stana. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR, 1961. 154 p.
(MIRA 14:7)

(Uzbekistan--Irrigation) (Uzbekistan--Water, Underground)

SHEVCHENKO, A.I.

Possibility of using artesian waters of the Angren alluvial cone
for irrigation purposes. Uzb. geol. zhur. no.2:30-34 '61.

(MIRA 14:5)

1. Institut gidrogeologii i inzherernoy geologii AN UzSSR.
(Angren Valley—Water, Underground)
(Irrigation)

ROMODANOVA, A.P.; SHEVCHENKO, A.I.

New find of remains of fossil mammals in the middle Pleistocene
of the Ukraine. Geol. zhur. 19 no.4:70-78 '59.

(MIRA 13:1)

(Ukraine--Mammals, Fossil)

GROMOV, I.M.; SHEVCHENKO, A.I.

Jerboas (Rodentia, Dipodidae) from Kuyal'nitskiy deposits of the southern Ukraine. Dokl. AN SSSR 139 no.4:976-979 Ag '61. (MIRA 14:7)

1. Zoologicheskiy institut AN SSSR i Institut geologicheskikh nauk AN USSR. Predstavлено akademikom Ye.N. Pavlovskim.
(Odessa region—Jerboas, Fossil)

GROMOV, I.M. [Hromov, I.M.]; SHEVCHENKO, A.I.

A new jerboa species (Rodentia, Dipodidae) from Kuyal'niatskiy de-
posits of the southern Ukraine. Dop. AN URSR no.1:108-110
'62. (MIRA 15:2)

1. Institut geologicheskikh nauk AN USSR. Predstavлено akademikom
AN USSR V.G. Bondarchukom [Bondarchuk, V.H.].
(Kryzhanovka Region—Jerboas, Fossil)

S/137/62/000/002/132/14¹
A052/A101

AUTHOR:

Shevchenko, A. I.

TITLE:

Some results of an investigation of the vibration building-up process

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 64, abstract 2E363
("Zap. Leningr. s.-kh. in-ta", 1961, no. 85, 61-67)

TEXT: The results of an investigation of the time-progressing of vibration building-up process by the electrode vibration amplitudes are presented. The investigation was carried out on an installation assembled according to a single-circuit induction diagram. The installation was power supplied by direct current of reversed polarity from a low-voltage АНД-1000/500 (AND-1000/500) converter. The inductance of the circuit was set by the different number (2-14) of in-series connected turns of the reactive winding of РСТЭ-34 (RSTE-34) choke at a permanently closed core. The building-up was carried out with the ЦЭЗ-1 (TsEZ-1) automatic head with the electromagnetic vibrator. The amplitude of vibrations of the electrode was regulated by the tension of springs of the vibrator lever and by the alternating current voltage in the electromagnet

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CHEVCHENKO, A.I.

1975. FINAL COOLING OF GASES WITH EXTRACTION OF NAPHTHALENE FROM THE
TAR. Feingold, R.O. and Shvchenko, A.I. (Koks i Khim. (Coke &
Chem., Moscow), 1956, (7), 32-36; BYER. in Russ. Abstr., 1957, vol. 51,
3567). Various schematic drawings of cooling towers together with tabulated
operating data are presented.

VASINOVSKIY KOKSOKHIMICHESKIY ZAVOD

SHEVCHENKO, A. I.

Coal preparation in heavy suspensions. Ugol' Ukr. 3 no.6:
19-21 Je '59. (MIRA 12:11)

1. Glavnnyy inzhener Yasinovskogo koksokhimicheskogo zavoda.
(Coal preparation)

SOV/68-59-7-7/33

AUTHORS: Toporkov, V. Ya., Florinskiy, N.F. and Shevchenko, A.I.
TITLE: Beneficiation of Coals in Heavy Media in the Yasinovskiy
Coking Works

PERIODICAL: Koks i khimiya, 1959, Nr 7, pp 16 - 20 (USSR)

ABSTRACT: A description of the plant and some operational results are given. The plant, with a throughput of 100 t/hr started operations in April 1958. This is the first plant of this type in the USSR. It is designed to beneficiate a washed product, but it can also treat large (80 - 12 mm) and small (12 - 0 mm) as well as unclassified (80 - 0 mm) coal. Magnetite suspension is used as a beneficiating medium. The design of the separator (designed by V.Ya. Toporkov) is shown in Figure 1. Starting coal is passed to a screen on which 0.75 - 0 mm fraction is washed out and passed to a flotation plant. Washed coal is treated in two separators in succession. From the first separator (3.5 m dia) concentrates, and from the second (1.8 m dia) intermediate products are withdrawn. The plant is described in some detail (Figure 2). The plant was operated to produce two fractions:

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SOV/68-59-7-7/33

Beneficiation of Coals in Heavy Media in the Yasinovskiy Coking Works

concentrates and tailings. The initial ash content of washed coal was 38% and that of concentrates 7.4%, and of tailings 50.7% (Tables 1 and 2). The theoretical yield of concentrates at specific weight of separation 1.43 should be 55.5%, the actual yield obtained was 51.2%. Magnetite losses were 1.5 kg per ton of coal (0.4 - 0.5 kg/t in coal and the rest in the effluent from electromagnetic separator). It is expected that the efficiency of separation will be further improved. There are 2 figures and 2 tables.

ASSOCIATIONS: UKhIN, Giprokok, Yasinovskiy koksokhimicheskiy zavod (Yasinovskiy Coking Works)

Card 2/2

SOV/68-59-8-7/32

AUTHOR: Aleksandrov, K.I., Shevchenko, A.I. and
Nepomnyashchiy, I.L.

TITLE: From Experience of Operation of the Machine for the
Removal of Covers from Charging Holes Designed by the
Bureau for Coke Oven Machine Building (Optyt
ekspluatatsii lyukos"yemov konstruktssi KB
koksokhimicheskogo mashinostroyeniya)

PERIODICAL: Koks i khimiya, 1959, Nr 8, pp 18-20 (USSR)

ABSTRACT: For the mechanisation of opening and closing charging
holes, cleaning of covers and cover frames, as well as
sweeping spillage produced during charging, the Design
Office for the Coke Oven Machine Building produced a
few types of machinery which have been tested on a
number of coking plants. The final type of the
installation which was recommended for general
introduction is described and illustrated (figure).
The specific features of the installation are that
all operations are carried out from a single position
Card 1/2 of the larry car and the replacement of covers is done

SOV/68-59-8-7/32

From Experience of Operation of the Machine for the Removal of
Covers from Charging Holes Designed by the Bureau for Coke Oven
Machine Building

correctly (without deviations from true horizontal
position). There is 1 figure and 1 table.

ASSOCIATION: Zhdanovskiy koksokhimicheskiy zavod
(Zhdanov Coking Works) (K.I. Aleksandrov);
Yasinovskiy koksokhimicheskiy zavod
(Yasinovka Coking Works) (A.I. Shevchenko);
KB koksokhimicheskogo mashinostroyeniya
(KB for Coke Oven Machine Building) (I.L. Nepomnyashchiy).

Card 2/2

FINKEL', M.Ya., prinali uchastiye; SHEVCHENKO, A.I.; KAUFMAN, A.S., [deceased]; STEPANENKO, V.S.; FEDOROV, N.I.; PAVLOVA, N.F.; AYZENBERG, L.G.; FAYNGOL'D, S.G.; LITVINNOVA, K.I.; VASLYAYEV, G.P.; STETSENKO, Ye.Ya.; LITVINNOVA, O.Yu.; USTINNOVA, A.G.

Improvement of the saturation process in the production
of ammonium sulfate. Koks i khim. no.7:43-46 '60.
(MIRA 13:7)

1. Ukrainskiy uglekhimicheskiy institut (for Finkel').
2. Yasinovskiy koksokhimicheskiy zavod (for Vaslyayev).
3. Giprokok (for Ustinova).
(Ammonium sulfate)

BRUK, A. S.; OBUKHOVSKIY, Ya.M.; VOLKOVA, Z.A.; BELETSKIY, V.G.; ANTONOV, A.T.;
SHEVCHENKO, A. I.

Effect of bulk weight of coal charges on the mechanical properties
of coke. Koks i khim. no.11:20-25 '60. (MIRA 13:11)

1. Dnepropetrovskiy metallurgicheskiy institut (for Bruk, Obukhov-
skiy, Volkova, Beletskiy). 2. Yasinovskiy koksokhimicheskiy zavod
(for Antonov, Shevchenko).

(Coke)

SHEVCHENKO, A.I.; AYZENBERG, L.G.; SMOL'YAKOV, I.K.; LEYZEROV, I.M.

Replenishment of the operating solution of sulfur-removing units
with liquid potassium hydroxide. Koks i khim. no.4:42-43 '61.
(MIRA 14:3)

1. Yasinovskiy koksokhimicheskiy zavod (for Shevchenko, Ayzenberg,
Smol'yakov). 2. Makeyevskiy koksokhimicheskiy zavod (for Leyzerov).
(Coke industry--By-products) (Sulfur)

PLIT, I.G.; KUZNETSOV, Ye.G.; LORODA, N.S.; SHEVCHELENKO, A.I.

Investigation of the process of hydrogen sulfide removal from coke-oven gas by potassium solutions in a scrubber with a pulverizing-atomizing plate. Koks i khim. no.10:42-47 O '61.
(MIRA 15:1)

1. Dnepropetrovskiy khimiko-tehnologicheskiy institut (for Plit). 2. Stalinskiy sovnarkhoz (for Kuznetsov). 3. Dnepropetrovskiy sovnarkhoz (for Loboda). 4. Yasinovskiy koksokhimicheskiy zavod (for Shevchenko).

(Hydrogen sulfide)
(Gas purification)
(Scrubber (Chemical technology))

SHEVCHENKO, A.I., inzh.

Economics of the water supply of enterprises in ferrous
metallurgy. Vod. i san. tekhn. no.1:22-23 Ja '64
(MIRA 18:2)

SHOVCHENKO, A.T.

Effect of nitrites and nitrates on the tonus and motility of the
small intestine. Fiziol. i tsink. 28 no.6:761 N-8 165.

(MIRA 19:1)

I. Kubitsa farmakologii (zav. - doktor med. наук Ye. F. Grushevskiy)
Krasnoyarskogo meditsinskogo instituta.

SHEVCHENKO, S. D., MALASHOV, V. B., YEFIMOV, V. A., doktor tekhn. nauk

Reactions of steel-metallurgical slag of exothermic mixtures with
graphite. Mat. i gornorud. prom. no. 4174-76 Jl-Ag '65.
(MIRA 18:10)

I. Institut problem lit'ya AN UkrSSR.

CHEKALIN, S.I.; SHEVCHENKO, A.I.

Preliminary results of testing the VIIR-2000 boring unit in
the Donets Basin. Razved. i ekh. nedr 27 no. 5:16-47 My '61.
(MIRA 14:9)

1. Trest "Artemgeologiya."
(Donets Basin--Boring machinery)

LUZAN, P.P., inzh.; SHEVCHENKO, A.I., inzh.

Liquation of nonmetallic inclusions in centrifugally cast
tractor liners. Mashinostroenie no.1:53-55 Ja-F '62. (MIRA 15:2)
(Founding)

MYLKO, S.N., kand.tekhn.nauk; SHEVCHENKO, A.I., inzh.

Reducing the extent of cleaning and fettling operations in founding.
Mashinostroenie no.2:42-48 Mr-Ap '62. (MIRA 15:4)
(Founding)

SHEVCHENKO, A.I., inzh.; TSYPLAKOV, Ye.I., inzh.

Die casting methods abroad. Mashinostroenie no.2:117-122 Mr-Ap
'62. (MIRA 15:4)
(Die casting)

MYLKO, S.N., kand.tekhn.nauk; SHEVCHENKO, A.I., inzh.

New methods for the cleaning of castings. Mashinostroenie no.3:40-48
My-Je '62. (MIRA 15:7)
(Founding)

L 35031-65 EWT(m)/EWP(b)/EWP(t) JD

15c 35
S/0286/65/000/005/003^b 34

ACCESSION NR: AP5008155

AUTHOR: Paton, B. Ye.; Dudko, D. A.; Medovar, B. I.; Latash, Yu. V.; Maksimovich,
B. I.; Shevchenko, A. I.; Stunek, L. H.; Goncharenko, V. P.; Grigor'yev, L. F.;
Pechukhov, G. R.; Lutin, N. I.; Lutynets, I. A.; Yartnev, M. A.; Keys, H. V.;
Tulin, N. A.; Kozol'nitakiy, V. G.; Privalov, N. T.; Pis'mennov, V. S.; Kholodov,
Yu. A.; Byntrov, S. N.; Bastrakov, N. F.; Donets, I. D.; Silayev, A. Ya.

TITLE: Method of electroslag casting of ingots. Class 18, No. 168743

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 34

TOPIC TAGS: ingot casting, ingot electroslag casting, electroslag melting, steel
melting, alloy melting, metal melting

ABSTRACT: This Author Certificate introduces a method of electroslag casting of
ingots in an open or protective atmosphere or in vacuum, in which slag is first
melted in a mold with a nonconsumable or consumable electrode arc or plasma jet.
To improve the metal quality and the ingot surface and to raise the yield, the
molten metal or, if needed, the slag is poured into the mold through a hollow con-
sumable or nonconsumable electrode (see Fig. 1 of the Enclosure). Orig. art. has:
1 figure. [ND]

Cont. 1/3

L 35031-65

ACCESSION NR: AP50008155

ASSOCIATION: Chelyabinskij metallurgicheskiy zavod (Chelyabinsk Metallurgical Plant)

SUBMITTED: 06Feb63

ENCL: 01

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3215

Card 2/3

L 38684-66 ENT(d)/EWF(c)/EMP(v)/T/EMP(k)/EWP(1) IJP(c)

ACC NR: AP6017625 (A) SOURCE CODE: UR/0113/66/000/002/0021/0023

AUTHOR: Dmitrichenko, S. S. (Candidate of technical sciences); Shevchenko, A. I.

ORG: NATI; MVTU imeni Bauman 37
TITLE: Accelerated road testing of trucks 38

SOURCE: Avtomobil'maya promyshlennost', no. 2, 1966, 21-23

TOPIC TAGS: endurance test, material failure, mechanical failure, fatigue test, road, automobile industry

ABSTRACT: The disadvantages of conventional testing are discussed. Some of these are:
a) it takes too long to test one automobile (8-12 months); b) the impossibility of comparing results due to the instability of road and test conditions; c) the impossibility of detecting a series of weak spots during testing. Accelerated road testing is proposed. Accelerated testing in practice must be carried out under the following conditions: a) programmed loading which includes a spectrum of operational loads; b) cyclic loading with a constant amplitude, where the loading is similar to fatigue-causing conditions during operation; c) a typical operational load cycle which is most characteristic for selecting operational conditions and which is most destructive; d) several typical operational load cycles which follow each other in a definite sequence; e) load conditions which are different from operational conditions. This selection of

UDC: 629.113.001.45

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L 35034-06

ACC NR: AP6017625

accelerated road test conditions was based on tensometric and statistic analysis of the amplitudes of variable loads during operation of the ZIL-16A truck. Analysis of the fatigue failures in the frame members of these vehicles shows that this type of failure occurred in the places where it would normally have occurred during operation. This indicates that the conditions for accelerated road testing were properly selected. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13/ SUPM DATE: none/ ORIG REF: 006/ OTH REF: 001

Card 2/2 IC

SHEVCHENKO, A.I.

Effect of some pharmacological substances on the tonus and
resting potential of smooth and tonic skeletal muscle fibers.
Farm. i tchks. 26 no.2:210-215 Mr.-Ap '63. (MIRA 17:8)

I. Kafedra farmakologii (zav. - prof. A.V. Val'dman) I
Leningradskogo meditsinskogo instituta imeni akademika Pavlova.

EWG(v)/EWG(v)/EWG(v)/EWG(v)/EWG(v)/EWG(v) Pe-5 DD

REFERENCE NO: AFJ-20411

3/C177/66/000/011/0055/0056

AUTHOR: Shevchenko, A. I.

TITLE: Peripheral blood changes in man with respiration of oxygen
under increased pressure

SOURCE: Vojenno-meditsinskiy zhurnal, no. 11, 1964, 55-56

TOPIC: AGS: human, respiration, pressurized oxygen respiration,
oxygen effect, peripheral blood change, leukocyte count, altitude
similation, decompression chamber, pressurized suit

ABSTRACT: In the first of two experimental series, the effect of
pressurized oxygen respiration on blood composition was studied in 40
men ages 19-22 yrs under normal atmosphere conditions. The subjects
were exposed for 30 min to respiration of oxygen under 250 mm water
column pressure produced by a KF-t apparatus; and, in a variant the
subjects (in pressurized suits) were exposed for 10-20 min to
respiration of oxygen under 300 mm water column pressure. In the
second series 20 men ages 19-22 yrs at a simulated altitude of 20,000
meters (in a decompression chamber) were exposed for 60 min to

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L 12438-65

ACCESSION NR: AP5002210

respiration of oxygen under 1500 mm water column pressure. In both series blood specimens were taken for analyses 30 min before the experiment, 10-20 min after start of experiment, and 24 hrs later. Results show that in the first series with respiration of oxygen at 1500 mm water pressure, the number of leukocytes increased slightly, while the number of neutrophils decreased. No changes in the red blood or the erythrocyte sedimentation rate. With respiration of oxygen under 2000 mm water column pressure and the use of pressurized suits, blood composition shifts were in the same direction except for the leukocytes which increased to 1900 cells/mm³. In the second series with respiration of oxygen under 1500 mm water column pressure at an altitude of 20,000 m, the number of erythrocytes increased slightly (200,000), hemoglobin and the color index remained unchanged, the number of leukocytes rose to 2,400 cells/mm³, and all cell forms increased in the leukocytic formula, particularly those of the neutrophil group. These blood composition changes generally lasted from several hours to a day, and some cases for as long as 2-3 days. The white blood changes under pressurized oxygen respiration apparently reflect the dynamics of functional stress development in the body and an interval of not less than 3 days is

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L 32438-65

ACCESSION NR: AP50002210

advisable before conducting other experiments of this type. Original
art. has: None.

O

ASSOCIATION: None.

SUBMITTED: 00

ENCL: 00

SUB CODE: PH, LS

NR REF Sov: 000

OTHER: 000

End 3/3

SHEVCHENKO, A.K.; NALIVAYKO, L. Ye.

Fauna and ecology of blood sucking midges in the middle Northern
Donets Valley. Trudy Ukr. resp. nauch. ob-va paraz. no.2:171-181
'63
(MIRA 17:3)

1. Nauchno-issledovatel'skiy institut biologii Khar'kovskogo
gosudarstvennogo universiteta i Chuguyevskaya rayonnaya bol'-
nitsa.

SHEVCHENKO, A.K.

The number of *Anopheles maculipennis* mosquitoes reaching an epidemically dangerous age under conditions prevailing in Khar'kov Province. Med. paraz.i paraz.bol. no.6:495-500 N-D '53. (MIRA 6:12)

1. Iz Khar'kovskoy oblastnoy protivomalyariynoy stantsii (zaveduyushchii stantsiyey S.V. Linkova).
(Khar'kov Province--Mosquitoes) (Mosquitoes--Khar'kov Province)

SHEVCHENKO, A. K.

SHEVCHENKO, A. K. -- "Malaria Mosquitos of Khar'kov Oblast and the Struggle against Them Using DDT and Hexachlorane." Min Higher Education Ukrainian SSR. Khar'kov Order of Labor Red Banner State U imeni A. M. Gor'kiy. Khar'kov, 1955. (Dissertation for the Degree of Candidate in Biological Sciences)

SOURCE Knizhnaya Letopis', No 6 1956

Shevchenko, A.K.
SHEVCHENKO, A.K.

Subspecies of *Anopheles maculipennis* in Kharkov Province. Med.paraz.
paraz.bol.supplement to no.1:39-40 '57. (MIRA 11:1)

1. Iz Khar'kovskoy oblastnoy protivomalyariynoy stantsii.
(KHARKOV PROVINCE--MOSQUITOES)

SHEVCHENKO, A.K.

Seasonal phenomena in the life of *Anopheles maculipennis* and the
time for carrying out antimalarial measures in Kharkov Province.
Med.paraz. i paraz.bol.supplement to no.1:40-42 '57. (MIRA 11:1)

1. Iz Khar'kovskoy oblastnoy protivomalyariynoy stantsii
(KHARKOV PROVINCE--MOSQUITOES--EXTERMINATION)

SHEVCHENKO, A. K. and GRITSAI, M. K.

"Organization of Measures to Control Vermin on Large Construction Projects in the Ukrainian SSR."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Ministry of Health UkrSSR and Kharkov Oblast Sanitary-Epidemiological Station

GRITSAY, M.K.; SHEVCHENKO, A.K.

Results of malaria control during the 40 years of Soviet rule in the
Ukraine. Med.paraz.i paraz.bol. 37 no.5:523-527 S-O '59.

(MIRA 13:4)

1. Iz Ministerstva zdravookhraneniya USSR i Khar'kovskoy oblastnoy
sanitarno-epidemiologicheskoy stantsii.
(MALARIA prev. & control)

GRITSAY, M.K.; SHEVCHENKO, A.K.

Insect control in large construction projects in Ukrainian
S.S.R. Med.paraz.i paraz.bol 29 no.5:537-541 S-0 '60.
(MIRA 13:12)
1. Iz Ministerstva zdravookhraneniya USSR i Khar'kovskoy oblast-
noy sanitarno-epidemiologicheskoy stantsii.
(DIPTERA)

SHEVCHENKO, A.K.

Black flies (family Simuliidae) of Kharkov Province. Report No.1.
Med.paraz.i paraz.bol. no.3:324-327 '61. (MIRA 14:9)

1. Iz Khar'kovskoy oblastnoy sanitarno-epidemiologicheskoy
stantsii (glavnnyy vrach I.I. Chernov).
(KHARKOV PROVINCE--BLACK FLIES)

SHEVCHENKO, A.K.; SHEVCHENKO, F.P.

Methods of phenological observations on synanthropic flies. Vop.
ekol. 4:153-155 '62. (MIRA 15:11)

1. Oblastnaya i rayonnaya sanitarno-epidemiologicheskaya stantsiya,
Khar'kov. (Kharkov Province—Flies) (Phenology)

ZVEREV, G.M.; PROKHOROV, A.M.; SHEVCHENKO, A.K.

Mechanism underlying the effect of a vanadium admixture
on the spin-lattice relaxation of chromium in corundum.
Fiz. tver. tela 4 no.11:3136-3143 N '62. (MIRA 15:12)

1. Moskovskiy gosudarstvennyy universitet imeni
M.V. Lomonosova.

(Paramagnetic resonance and relaxation)
(Nuclear spin)

SHEVCHENKO, A.K., kand. biolog. nauk; BROLOTSKAYA, A.D.; ROETSER, A.N.

Some problems in the epidemiology of ascariasis and methods of
its liquidation in Kharkov Province. Med. paraz. i paraz. bol.
31 no.6:688-693 N-D '62. (MIRA 17:11)

I. Khar'kovskaya oblastnaya sanitarno-epidemiologicheskaya
stantsiya (glavnnyy vrach I.I. Chernov).

SHEVCHENKO, A. K.

AID Nr. 990-5 14 June

SINGLE PULSE HIGH-VOLTAGE NANOSECOND GENERATOR (USSR)

Yerozolimskiy, B. G., L. N. Bondarenko, V. P. Prikhod'ko, Yu. A. Mostovoy, A. K. Shevchanko, and Yu. G. Matveyev. Pribory i tekhnika eksperimenta, no. 2, Mar-Apr 1963, 93-97. S/120/63/000/002/022/041

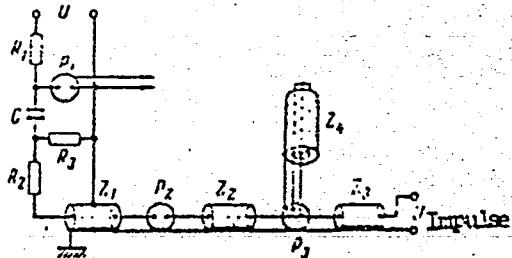
A generator has been developed by the Institute of Nuclear Physics in Novosibirsk for the control of a 100 Mev electron beam in a synchrotron with a diameter of 1 mm.

Card 1/5

AID Nr. 990-5 14 June

SINGLE PULSE HIGH-VOLTAGE [Cont'd]

S/120/63/000/002/022/041



The generator drives a load of not less than 13 ohm and produces single pulses with an amplitude of 100 kv, a rise time of 1 nanosec, and a duration of 10 to 12 nanosec. The basic advantages of the generator are high speed and overvoltage discharging, with the aid of which the leading edge and the duration of the high-volt-

age pulse is formed. The operation of the generator is as follows [see illustration]. Capacitor C is charged through resistor R up to a voltage V_0 from a rectifier. At a given moment of time a 6 to 8-kv triggering pulse with a rise time of 0.1 μ sec is applied to a gap between the grounded electrode of discharger P_1 and its auxiliary electrode. The main gap of the discharger (filled with nitrogen at a pressure up to 20 atm-gauge) breaks through in 0.1 μ sec following the breakthrough of the triggering gap. Capacitor C charges

Card 2/4

AID Nr. 990-5 14 June

SINGLE PULSE HIGH-VOLTAGE [Cont'd]

S/120/63/000/002/022/041

the storage line with wave impedance Z_1 up to voltage $V_1 = V_0 C / (C + C_1)$, where C_1 is the capacitance of Z_1 . Therefore, the voltage of discharger P_2 rises to V_1 during a period of 0.1 to 0.2 μ sec, creating the necessary over-voltage. After the breakdown of discharger P_2 along line Z_2 , a voltage wave with a rise time of 1 nanosec is propagated. At discharger P_3 , the wave is divided and applied to the load through line Z_3 . At the same time, it is fed to discharger P_3 through line Z_4 , which short-circuits line Z_2 and causes voltage V_2 to drop to zero.

[GS]

Card 3/4

AID Nr. 995-19 21 June

8/120/63/000/002/022/041

ERRATUM. On page 3 of issue 990 the sentence beginning on line 10 should read as follows: "The basic advantages of the generator are high speed and the use of overvoltage dischargers, by which the leading edges and the duration of high-voltage pulses are formed."

Card 1/4

SHEVCHENKO, A.K.

AID Nr. 984-8 6 June

GENERATION OF MILLIMETER WAVES IN OPTICALLY PUMPED RUBY
(USSR)

Zverev, G. M., A. M. Prokhorov, and A. K. Shevchenko. Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 4, Apr 1963, 1415-1418.

S/056/63/044/004/042/044

Experiments have been conducted using a ruby laser at 77°K to pump a three-level ruby millimeter-wave ($35-50 \cdot 10^9$ cps) generator operating at the same temperature. Emission from the nitrogen-cooled ruby laser passed through a system of mirrors and a lens onto the end of a nitrogen-cooled ruby which served as a millimeter-band resonator and whose c-axis was perpendicular to the external magnetic field. Emission from the generator ruby was detected by a reflector-type superheterodyne radio spectrometer which also controlled

Card 1/2

AID Nr. 984-8 6 June

GENERATION OF MILLIMETER WAVES [Cont'd]

S/056/63/044/004/042/044

the required magnetic field. The detected output, along with the photomultiplier-monitored laser pulse signal, was displayed on the screen of a pulse oscilloscope. The generated millimeter-band power output was $\sim 10^{-5}$ w. The emission had the multiple-spike form observed in rf-pumped paramagnetic generators. It was calculated that the maximum power ideally obtainable in the sample used (0.05% chromium ion concentration) is 1.7 mw in a pulse with a duration of $\sim 150 \mu\text{sec}$.

[BB]

Card 2/2

L_8460-65 EEO-2/EWA(k)/EWT(d)/FBBD/EWT(1)/EEC(k)-2/R/EEC-4/EEC(t)/T/EEC(b)-2/ENP(k)/
PEN-2/EWA(m)/EWA(h) Pf-4/Pi-4/PL-4/Pm-4/Pn-4/Po-4/Pac-4 IJP(c)/AFETR/AFTC(d)/SSD/
AFAL/ASL-1/AFEM-a/ADM-k-5/AFMD(c)/RAEM(c)/ESD(c)/RAEM(e)/ESD(gs)/ESD(t)/RAEM(t)/
ACCESSION NR: AP4042994 ES1127 S/0051/64/017/001/0143/0144

AUTHOR: Kravtsov, N. V.; Shevchenko, A. K.

TITLE: Possibility of conversion of phase and frequency modulation of light into amplitude modulation

SOURCE: Optika i spektroskopiya, v. 17, no. 1, 1964, 143-144

TOPIC TAGS: laser radiation spectrum, laser modulation, frequency modulation, pulse modulation, amplitude modulation, laser communication, laser

ABSTRACT: The investigation is of interest since phase and frequency modulation of laser radiation is more economical than amplitude modulation, but reception of the latter is simpler. Two schemes are described for this purpose. The system for pm to am conversion is similar to a somewhat modified Jamin interferometer with a phase modulator in each arm. Such a system is not sensitive to variation

Card 1/3

L 8460-65

ACCESSION NR: AP4042994

D

of the laser-light frequency and is claimed to be more economical than a system in which passive compensation of the phase of the second beam is realized. This am method is suitable for both coherent and incoherent light. For the system of fm to am conversion, it is shown that for a wavelength 5×10^{-5} cm and a path difference 25 cm, the beam will go from direction a to direction b when the frequency deviation is 10^{-6} . It is pointed out that observation of the end of a laser crystal through such a system would make it possible to find the distribution of the generated frequencies over the face of the laser crystal. (b) of the Enclosure presents 2 conversion systems. Orig.

ASSOCIATION: none

SUBMITTED: 16Sep63

ATD PRESS: 3102

ENCL: 01

SUB CODE: EC

NO REF SOV: 000

OTHER: 003

CONT. 2/3

ACCESSION NR: AP4042994

ENCLOSURE: 01

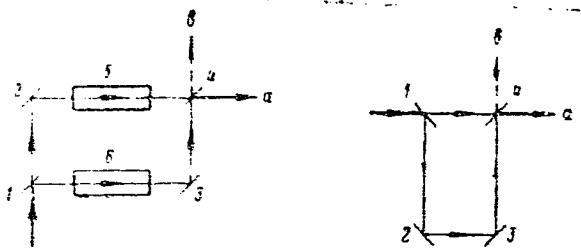


Fig. 1. Systems for the conversion of phase into amplitude modulation (left) and frequency into amplitude modulation (right)

1, 4 - Semitransparent mirrors; 2, 3 - mirrors; 5, 6 - phase modulators.

Card 3/3

GRIITSAY, M.K.; SHEVCHENKO, A.K.

Changes in breeding of blood-sucking Diptera and other insects
during the first few years of operating large water reservoirs.
Med.paraz.i paraz.bol. 33 no.4:468-471 J1-Ag '64.

1. Ministerstvo zdravookhraneniya UkrSSR i Institut biologii
Khar'kovskogo gosudarstvennogo universiteta. (MIRA 18:3)

L 52695-65 EWA(k)/FBD/ENG(r)/EWT(1)/EEC(k)-2/EEC(t)/T/EEC(b)-2/EWP(k)/
EWA(n)-2/EWA(h) Pm-4/Pn-4/Po-4/Pf-4/Peb/Pi-4/Pl-4 SCTB/IJP(c) SG
ACCESSION NR: AP5013332 UR/0109/65/010/005/0788/0803

AUTHOR: Zverev, G. M.; Prokhorov, A. M.; Shevchenko, A. K.

TITLE: Paramagnetic amplifiers and generators with optical pumping (Review)

SOURCE: Radiotekhnika i elektronika, v. 10, no. 5, 1965, 788-803

TOPIC TAGS: paramagnetic amplifier, paramagnetic generator, optical pumping,
ruby laser, paramagnetic laser, gallium arsenide laser

ABSTRACT: Based on twelve 1954-64 Soviet publications and twenty-two 1956-64 Western sources, this review of quantum paramagnetic amplifiers (QPA) and quantum paramagnetic generators (QPG) consists of these sections: special features of using optical pumping (OP); calculation of OP-type QPA and QPG; QPA and QPG with pulsed OP; substances for QPA and QPG, ruby QPA with ruby laser pumping, fluorite with a Nd³⁺ admixture and with GaAs-laser pumping, fluorite with Tm³⁺ admixture (cubic field); millimeter-wave generation. These conclusions are

Card 1/2

L 52693-65

ACCESSION NR: AP5013332

drawn: (1) QPA and QPG with OP extend the quantum-device range down to the submillimeter band; (2) Low temperatures are required for the steady-state operation of QPA and QPG; OP power may be reduced to 0.1 w; (3) Inversion can be obtained with $\hbar v_c / kT < 0.69$, i.e., with rather high temperatures under pulsed conditions and a constant magnetic field; (4) Cramers' doublets having a high relaxation time are most suitable for obtaining inversion of populations; (5) Absorption in the crystal lattices will not preclude constructing QPA and QPG for longer-than-0.2-mm waves; (6) Substances are available for ensuring QPA and QPG operation under steady-state conditions (Cr^{3+} in Al_2O_3 with ruby-laser OP, Nd^{3+} in CaF_2 with GaAs laser OP, etc); (7) Pulsed QPG may develop considerable power. Orig. art. has: 4 figures, 50 formulas, and 2 tables. [03]

ASSOCIATION: none

SUBMITTED: 31Mar64

ENCL: 00

SUB CODE: EC

NO REF SOV: 012

OTHER: 022

ATD PRESS: 4013

B&B
Card 2/2

1. KANEVSKIY, S. B. (ENGINEER), SHEVCHENKO, A. I.
2. USSR (60C)
4. Steel Works
7. Reconstruction of a steel smelting shop. Stroi. Prom. 30 No. y, 1952. Engineer
9. Monthly List of Russian Accessions. Library of Congress, August 1952. Unclassified.

SHEVCHENKO, A.L., red.; MATVEYeva, A.Ye., tekhn.red.

[Handles for gauges] Ruchki dlja kalibrov. Moskva, Gos.izd-vo
standartov, 1959. 11 p.
(Gauges—Standards)

(MIRA 13:7)

SHEVCHENKO, A.L., red.; MATVEYEVA, A.Ye., tekhn.red.

[Nonregulated gauges for checking lengths from 10 to 500 mm]
Skoby nereguliruemye dlja kontrolia dlin svysha 10 do 500 mm;
tipy i razmery. Moskva, Gos.izd-vo standartov, 1959. 19 p.
(MIRA 13:7)

(Gauges--Standards)

SHEVCHENKO, A.L., red.; MATVEYEVA, A.Ye., tekhn.red.

[Hand trimming, and cleaning tools for foundries] Instrument
ruchnoi liteinyi obrubnoi i ochistnoi. Moskva, Gos.izd-vo
standartov, 1959. 22 p.
(Foundries--Equipment and supplies--Standards)

SHEVCHENKO, A.L., red.; MATVEYEVA, A.Ye., tekhn.red.

[Clamp caps for antifriction bearings; design and specifications]
Kryshki prizhimnye dlja podshipnikov kachenija; konstruktsija i
ispolnitel'nye razmery. Moskva, Gos.izd-vo standartov, 1959.
35 p. (MIRA 13:6)

(Bearings (Machinery)--Standards)

SHEVCHENKO, A.L., red.; MATVEYEVA, A.Ye., tekhn.red.

[Molding and smoothing tools for foundries] Instrument liteinyi
formovochnyi i otdelochnyi. Moskva, Gos.izd-vo standartov, 1959.
94 p. (MIRA 13:7)
(Foundries--Equipment and supplies--Standards)

SHEVCHENKO, A.L., red.; KASHIRIN, A.G., tekhn.red.

[Welded steel vessels and apparatus; specifications] Sosudy
i apparaty svarnye, stal'nye; tekhnicheskie trebovaniia.
Moskva, Gos.izd-vo standartov, 1960. 69 p. (SSSR. Normal'
mashinostroeniaia MN 72-59). (MIRA 14:2)
(Implements, utensils, etc.—Standards)

SHEVCHENKO, A.L., red.; MATVEYEVA, A.Ye., tekhn.red.

[Forging tools; design and specifications] Instrument kuznechnyi;
konstruktsiiia i ispolnitel'nye razmery. Moskva, Gos.izd-vo
standartov. 1960. 103 p. (MIRA 13:7)
(Tools--Standards)

SHEVCHENKO, A.L., red.; MATVEYEVA, A.Ye., tekhn.red.

[Iron and steel foundry flasks cast in one piece; design and specified dimensions of elements and details] Opoki liteinye tsel'nolitye chugunnye i stal'nye; konstruktsiiia i ispolnitel'nye razmery elementov i detalei. Moskva, Gos.izd-vo standartov, 1960.
122 p.

(MIRA 13:11)

(Foundries--Equipment and supplies)
(Foundry--Details--Drawings)

SHEVCHENKO, A.I., red.; MATVEYEVA, A.Ye., tekhn.red.

[Nonregulated thread gauges for metric thread] Kalibry rez'bovye
nereguliruemye dlia metricheskoi rez'by. Moskva, Gos.izd-vo
standartov, 1960. 155 p. (MIRA 13:12)
(Gauges) (Screws)

SHEVCHENKO, A.L., red.; LAKHMAN, F.Ye., tekhn.red.

[Machining, planing and slotting cutters made of high-speed
tool steel with hard alloy tips] Reznye tokarnye, strogal'nye
i dolbeznye iz bystrorezhushchey stali i s plastinkami iz
tverdogo splava. Moskva, Gos.izd-vo standartov, 1960. 268 p.
(MIRA 14:2)

(Metal-cutting tools--Standards) (Tool steel)

SHEVCHENKO, A.L., red.; MATVEYEVA, A.Ye., tekhn. red.

[Metal-cutting tools; drills and centering tools] Rezhu-
shchii instrument; sverla i tsentrovochnyi instrument.
Izd.ofitsial'noe. Moskva, Standartgiz, 1962. 67 p.
(MIRA 15:11)
(Twist drills--Standards)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6

SHEVCHENKO, A.L., inzh.; PIGULEVSKIY, V.G., inzh.

Installation for securing built up columns during their
erection. Prom. stroi. 41 no.11:46 N '63. (MIRA 17:2)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6"

YUDIN, Mikhail Fedorovich; FOMINYKH, Vladimir Ignat'yevich;
DROBEYEV, G.A., nauchn. red.; SHVCHENKO, A.L., red.

[Neutron dosimetry] Neitronnaia dozimetriia. Moskva, Izd-
vo standartov, 1964. 214 p. (MIRA 17:9)

SIDOROV, Ivan Aleksandrovich; SHEVCHENKO, A.L., red.

[Standardization of technological equipment for metal-working by pressure] Normalizatsiia tekhnologicheskoi osnastki dlia obrabotki davleniem. Moskva, Izd-vo standartov, 1964. 177 p. (MIRA 17:11)

SHEVCHENKO, A.M.

Effect of herbicides, chlorine derivatives of phenoxyacetic acid,
on the formation of conditioned reflexes in white rats. Dokl. AN
BSSR 6 no.3:199-201 Mr '62. (MIRA 15:3)

1. Belorusskiy gosudarstvennyy institut usovershenstvovaniya
vrachey. Predstavлено akademikom AN BSSR D.A. Markovym.
(CONDITIONED RESPONSE) (2,4-D)

BABOV, D.M., SAMOYLOV, A.P., SREVCHENKO, A.M.

Conference on the problem "Silicosis and its control", devoted
to the 40th anniversary of the Ukrainian S.S.R. Gig. truda i
prof. zab. 2 no.6:70-71 N-D '58 (MIRA 11:12)
(LUNGS--DUST DISEASES)

SHOVCHENKO, A.M.

Blood proteins and γ-globulin therapy in pregnant women
with late toxemias. Akush. i gin. 40 no.1:54-59 Ja-F '64.
(MIRA 17:8)

I. Katedra akushерства i ginekologii (zav. - prof. I.I.
Benediktov) lechebnogo fakulteta Sverdlovskogo meditsinskogo
instituta.

BENEDIKTOV, I.I.; SHEVCHENKO, A.M.

Characteristics of the course of late toxicosis in pregnant women
with hypertension. Akush. i gin. 40 no.5:61-65 S-O '64. (MIRA 18:5)

I. Katedra akusherstva i ginekologii (zav. - prof. I.I.Benediktov)
Sverdlovskogo meditsinskogo instituta.

VINNIK, L.A., dotsent; SUTYRINA, G.V.; BOLDYREVA, A.A.; SHEVCHENKO, A.M.

Growth rate of Mycobacterium tuberculosis and isoniazid
concentration in resected lungs. Prob. tub. no.1:75-78 '65.
(MIRA 18:12)

1. Fakul'tetskaya terapeuticheskaya klinika (zav.- prof.
A.M. Nogaller) Astrakhanskogo meditsinskogo instituta i
Astrakhanskiy oblastnoy protivotuberkuleznyy dispanser
(glavnnyy vrach A.P. Demidova).

SHEVCHENKO, A. M., Candidate Med Sci (diss) -- "Problems of the prophylaxis
of silicosis in enterprises engaged in open-pit mining of quartzite". Kiev, 1959.
18 pp (Kiev Order of Labor Red Banner Med Inst im Acad A. A. Bogomolets), 200
copies (KL, No 22, 1959, 125)

SHEVCHENKO, A.M.

Stone fruit breeding at the Mleyevo Experiment Station.
Agrobiologija no.2:198-202 Mr-Ap '59. (MIRA 12:6)

1. Mleyevskaya optytnaya stantsiya sadovodstva imeni L.P.
Simirenko, Cherkasskaya oblast'.
(Ukraine--Stone fruit breeding)

SHEVCHENKO, A.M.

Principle problems in industrial hygiene at plants which mine
and crush quartzites. Vrach.delo no.1:63-65 Ja '58. (MIRA 11:3)

1. Kiyevskiy institut gigiyeny truda i professional'nykh zabolеваний.
(STONE INDUSTRY--HYGIENIC ASPECTS) (QUARTZITE)

SHEVCHENKO, A.M.

Improve working conditions of excavator operators. Bezop. truda v
prom. 4 no.4:32 Ap '60. (MIRA 13:9)

1. Krivorozhskiy institut gigiyeny truda i profzabolevaniy.
(Excavating machinery--Safety measures)

SHELEKETIN, A.V., kand.tekhn.nauk; SHEVCHENKO, A.M.

In sintering plants of the Frivoy Rog Southern Mining and Ore Dressing Combine. Metallurg 6 no. 1:10-12 Ja '61. (MIRA 14:1)

1. Krivorozhskiy institut gigiyeny truda.
(Krivoy Rog—Sintering)

SHEVCHENKO, A.M., red.

[Problems of industrial hygiene and occupational diseases
in mining and metallurgy industries] Voprosy gigiery tru-
da i professional'nykh zabolеваний v gornorudnoi i metal-
lurgicheskoi promyshlennosti. Kiev, Gosmedizdat USSR,
(MIRA 17:2)
1963. 293 p.

1. Krivoy Rog. Nauchno-issledovatel'skiy institut gigiyeny
truda i profzabolevaniy.

KHISTICH, V.A., kand. tekhn. nauk; SHIEVCHENKO, A.M., inzh.

Performance of the flame tubes of gas turbine combustion chambers
operating on natural gas. Energ. i elektrotekh. prom. no.2:20-23
(MIRA 17:10)
Ap-Je '64.

BAZHAN, A.P., inzh.; PARFENENKO, L.S.; SHEVCHENKO, A.M., kand. med. nauk X

Dust control measures during the sinking of vertical shafts.
Bor'ba s sil. 6:92-96 '64 (MIRA 18:2)

1. Krivorozhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva
(for Bazhan, Parfenenko). 2. Krivorozhskiy nauchno-issledova-
tel'skiy institut gigigiene truda i professional'nykh zabolева-
niy (for Shevchenko).

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6

BAZHAN, A.P.; PARFENENKO, L.S.; S. EVCHENKO, A.M.

Investigating air dustiness during the sinking of vertical shafts.
Bezop. truda v prom. 7 no.12:26-27 D '63.

(MIRA 18:7)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210003-6"

ACCESSION NR: AP4045906

S/0114/64/000/009/0012/0015

AUTHOR: Khristich, V. A. (Candidate of technical sciences); Bashkatov, Yu. N. (Engineer); Chernin, Ye. N. (Engineer); Shevchenko, A. M. (Engineer)

TITLE: Effect of a burner on the characteristics of a gas-turbine combustor

SOURCE: Energomashinostroyeniye, no. 9, 1964, 12-15

TOPIC TAGS: combustor, combustor test, combustion chamber, combustion chamber test, gas turbine/GT-25-700-1-LMZ gas turbine plant

ABSTRACT: A continuation of the authors' earlier experiments (Energomashinostroyeniye, 1962, no. 10) is reported. The possibility of a radical improvement in a premixing register burner by modifying its design was explored. The principal experiments were conducted at an air pressure of 1.5 atm, a temperature before the chamber of 300°C, an air flow of 7–8 m³/sec, and an air-fuel ratio of 4.5–20 (primary-air ratio 1:1–5). Several types of

Card 1/3

ACCESSION NR: AP4045906

burners were tested; four of them are shown in Enclosure 1. The flow aerodynamics was investigated with a cold blowdown of the chamber. Register burner I was found to produce the highest temperature field in the flame tube. The best operating conditions of the flame tube were observed (at 700C of exhaust gases) with nonregister-type diffusion burners. The intensity and completeness of combustion were also investigated (curves supplied), as well as combustion stability, pressure loss in the chamber, and the temperature field of exhaust gases. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute); Leningradskiy metallicheskiy zavod (Leningrad Metal Plant)

SUBMITTED: 00

ENCL: 01

SUB CODE: PR

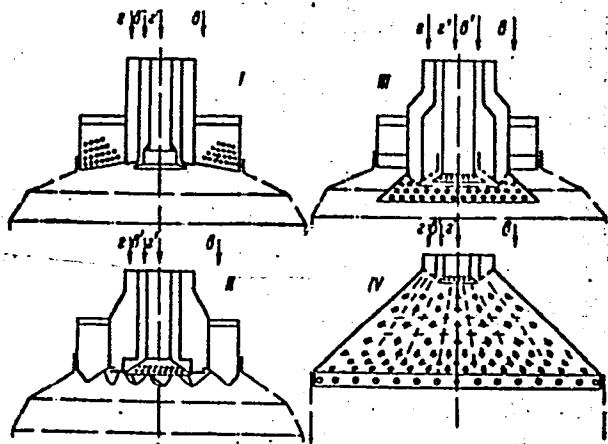
NO REF SOV: 092

OTHER: 000

Card 2/3

ACCESSION NR: AP4045906

ENCLOSURE: 01



Burner types tested.

- I - Flat-register premixing burner
- II - Diffusion-type register burner
- III - Nonregister diffusion burner, cone stabilizer
- IV - Nonregister diffusion burner, jet mixing

Card 3/3

KHRISTICH, V.A.; SHEVCHENKO, A.M.

Efficient design for the flame tubes of gas-turbine combustion chambers. Mash. i neft. obor. no.6:13-17 '64. (MIRA 18:2)

1. Kiyevskiy politekhnicheskiy institut.